

LESSONS FROM TRAVEL AND TOURISM SATELLITE ACCOUNTS FOR SPACE ECONOMIC DATA

Sumiye Okubo
Bureau of Economic Analysis
Space Economic Data
October 16, 2001



Topics to be Discussed

- Why develop the Travel and Tourism Satellite Accounts
- Questions for Space Economic Data
- Economic Data on Space Industries in the National Accounts



Why Develop the Travel and Tourism Satellite Accounts?

What are we missing?

- National accounts classification system does not identify tourism
- GDP components do not identify tourism separately
- Detailed data and a framework for measuring tourism was needed.



The TTSA's and Goals of the Accounts

- Measure the size of tourism
- Identify tourism commodities and industries
- Show the relationship between tourism and the U.S. economy



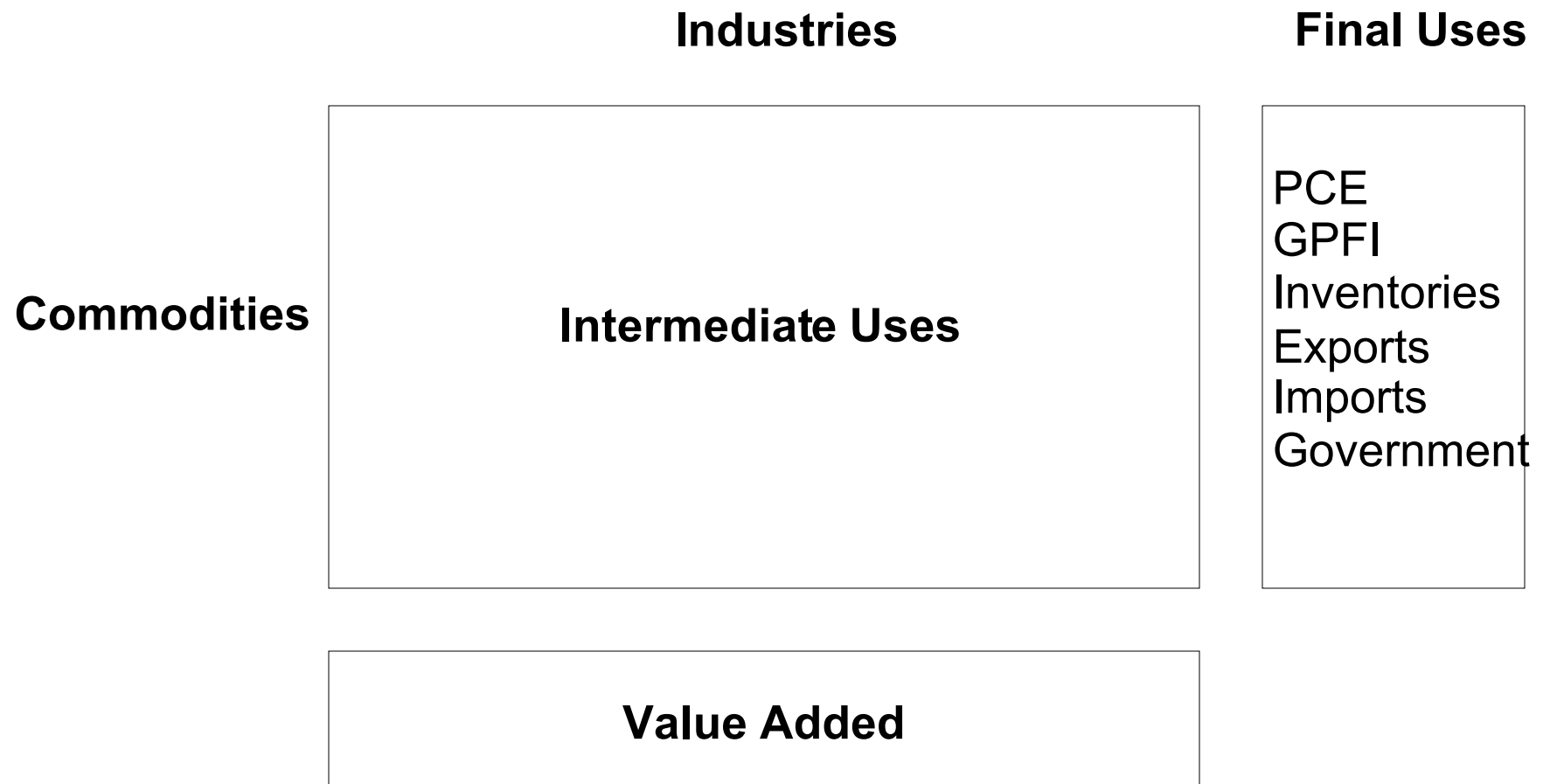
Satellite Accounts

What can they do for us?

- Organize information to focus on a particular aspect of the economy while maintaining links to the national economic accounts
- Laboratory for development of concepts and methodologies
 - ▶ Experiment with changes in definitions and concepts
 - ▶ Expand detail of the accounts
 - ▶ Change the classification structure



Input-Output Table



Input-Output Accounts

- High level of detail
 - ▶ 7000 separate products
 - ▶ 1000 industries and final uses
- Includes consumption by business, persons, non-residents, and government
- Directly relates to the national economic accounts



Tourism Definitions (1)

What is a tourist and what is tourism?

- Tourist is an out-of-town visitor traveling for business or leisure 50 miles or more from home
- Tourist versus tourism:
 - ▶ Tourist is a person taking a trip, while tourism refers to spending of the tourist before, during and immediately after the trip.



Tourism Definitions (2)

- Tourism Commodity
 - ▶ Commodities purchased by visitors, where there is a direct contact between the producer and the visitor, or a large portion of the commodity is purchased by visitors, or is an attraction to visitors
- Tourism Industry
 - ▶ Industries whose primary products are tourism commodities



Tourism Definitions (3)

Types of Visitors

- Business
- Government
- Resident households
- Nonresidents traveling in the U.S.



Table A. -- Total Sales and Tourism-Related Sales of Tourism Industries

Second-quarter 2001 at an annual rate

[Billions of dollars]

<u>Tourism Industry</u>	<u>Total Sales</u>	<u>Tourism- related Sales</u>
Hotels and lodging places	144	115
Eating and drinking places	353	60
Railroads and related services	2	<u>1/</u>
Local and bus passenger transit	11	2
Taxicabs	10	5
Air transportation	146	111
Water transportation	37	6
Automotive rental and leasing	36	21
Travel agency services	18	4
Amusement and recreation services	79	16
Membership sports and recreation clubs	20	7
Motion pictures and other entertainment	45	8
Professional sports clubs and promoters	20	2
Gasoline service stations	57	4
Retail excluding restaurants and gas stations	1022	31
<i>All tourism industries</i>	2001	391

1/ Less than \$500 million.

Source: Bureau of Economic Analysis



Table C. -- Direct and Indirect Tourism-related Sales of Tourism Industries

Second-quarter 2001 at an annual rate

[Billions of dollars]

<u>Tourism Industry</u>	<u>Direct Tourism Sales</u>	<u>Indirect Sales in Other Industries</u>	<u>Total Direct and Indirect Sales</u>
Hotels and lodging places	115	91	206
Eating and drinking places	60	64	124
Railroads and related services	<u>1/</u>	<u>1/</u>	<u>1/</u>
Local and bus passenger transit	2	2	4
Taxicabs	5	4	8
Air transportation	111	99	210
Water transportation	6	7	14
Automotive rental and leasing	21	19	40
Travel agency services	4	3	7
Amusement and recreation services	16	12	27
Membership sports and recreation clubs	7	5	11
Motion pictures and other entertainment	8	6	14
Professional sports clubs and promoters	2	1	3
Gasoline service stations	4	7	11
Retail excluding restaurants and gas stations	31	17	48
<i>All tourism industries</i>	391	337	728

1/ Less than \$500 million.

Source: Bureau of Economic Analysis



Summary List of Questions

- Why measure tourism and the TTSAAs?
- What framework could be used to measure tourism?
- How did we define tourism?
- What data were available to measure tourism?



Questions for Space Economic Data

- Why measure space industries?
- What is the definition of a space industry?
- What questions will the data address?
- Do the measures of space need to be compared to other estimates of the U.S. economy?



Space Industries Data - NAICS

- Communication systems and equipment, except broadcast, but including microwave equipment and space satellites (3342201)
- Tracking radar systems and equipment (33451133)
- Missile and space vehicle systems equipment (33451135)
- R&D on complete guided missiles (336414)
- Guided missile and space vehicle parts, nec (336419)



Space Industries Data in International Accounts

- BEA collects in its international surveys space-related expenditures, such as,
 - ▶ Receipts and payments for satellite launching
 - ▶ Ground station support services for satellites
 - ▶ Receipts and payments for conduct of space experiments
 - ▶ Telecommunications services (satellites)
- The Balance of Payments includes receipts and payments for space-related services



Some Possible Questions

- How large is the space industry in relation to the rest of the U.S. economy?
 - ▶ Which industries are the most important?
- What is the impact of R&D in the space industry on the rest of the economy?
 - ▶ What is the role of government R&D spending?
 - ▶ How important is private industry R&D spending?



TTSA Commodities/Industries

Hotels and lodging places

Eating and drinking places

Passenger rail

Passenger bus and other local transportation

Taxicabs

Domestic and international passenger air

Passenger water

Auto, truck, and other vehicle rental

Arrangement of passenger transportation



TTSA Commodities/Industries (2)

Recreation and entertainment

Participant sports/Sports events

Movie, theater, ballet and musical events

Retail and wholesale trade margins

Transportation costs

Parking, tolls, etc./gasoline and oil

PCE Nondurable commodities

Travel by U.S. residents abroad

